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in planes above and below the given voxel, are compared to said given voxel for contiguity; and

- (c) identifying said contiguous group of voxels as potentially containing said object if a characteristic of said contiguous group has a predetermined value.
- %. (Amended) A method as set forth in claim & further comprising the step of:

<u>after step (f),</u> further inspecting <u>the three-dimensional</u> <u>volume</u> to confirm the presence [or absence] of an explosive.

- 12. (Amended) An apparatus to [help] ascertain the presence [or absence] of an object in a three-dimensional volume represented by a plurality of voxels, wherein the object is smaller in at least one dimension than a linear dimension of the voxels, the apparatus comprising:
 - (a) a scanner to scan the object; and
 - (b) a prodessor which includes
- a property of each of a plurality of voxels representing the three-dimensional volume and to identify voxels having similar values of said property to identify a contiguous group of voxels having said similar values using a contiguity evaluation process wherein, for a given voxel, voxels in the same plane as the given voxel, and in planes above and below the given voxel, are compared to said given voxel for contiguity; and
- (2) an object identification module to identify said contiguous group of voxels as potentially containing said object if a characteristic of said contiguous group has a predetermined value.
- 20. (Amended) method of detecting an explosive comprising the steps of:

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(a) scanning a three-dimensional volume to [determining] determine the density of each of a plurality of voxels representing the three-dimensional volume;

- (b) connecting and labeling voxels of the plurality of voxels which have similar densities using an evaluation process wherein, for a given voxel, voxels in the same plane as the given voxel, and in planes above and below the given voxel, are compared to said given voxel for contiguity;
- (c) determining at least one of the volume and the mass of each contiguous region of voxels having similar densities; and
- (d) comparing at least one of the volume and the mass of each contiguous region having similar densities to at least one threshold and identifying each region which exceeds a threshold as a region potentially containing an explosive.

Please add the following new claims:

- contiguity evaluation process differences between a property of said given voxel and a property of voxels in said planes above and below said given voxel, are employed to evaluate contiguity.
- 22. An apparatus as set forth in claim 12, wherein in said contiguity evaluation process differences between a property of said given voxel and a property of voxels in said planes above and below said given voxel, are employed to evaluate contiguity.
- 23. A method as set forth in claim 20, wherein in said evaluation process differences between a property of said given voxel and a property of voxels in said planes above and below said given voxel, are exployed to evaluate contiguity.